



U.S. Department of Energy
Office of Management, Budget and Evaluation
Integrating DOE's Business Management Systems
Integrated Management Navigation System
(I-MANAGE)

FMSIC

March 19, 2003

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High Level Concept of Operations – Briefing Agenda

1. Background / Review

- I-MANAGE Program Description/Vision
- Individual systems within I-MANAGE
- The I-MANAGE Data Warehouse
- What I-MANAGE means to end-users

2. I-MANAGE In More Detail

- STARS modules and the accounting flex-field
- STARS provides budgetary and proprietary federal accounting
- How a common work breakdown structure fits into STARS
- Data captured within STARS
- Linking STARS and a performance hierarchy structure
- Some ideas on what a performance hierarchy could offer

3. Current Activities/Plans

- Joint Requirements Definition Session
- Executive Steering Committee

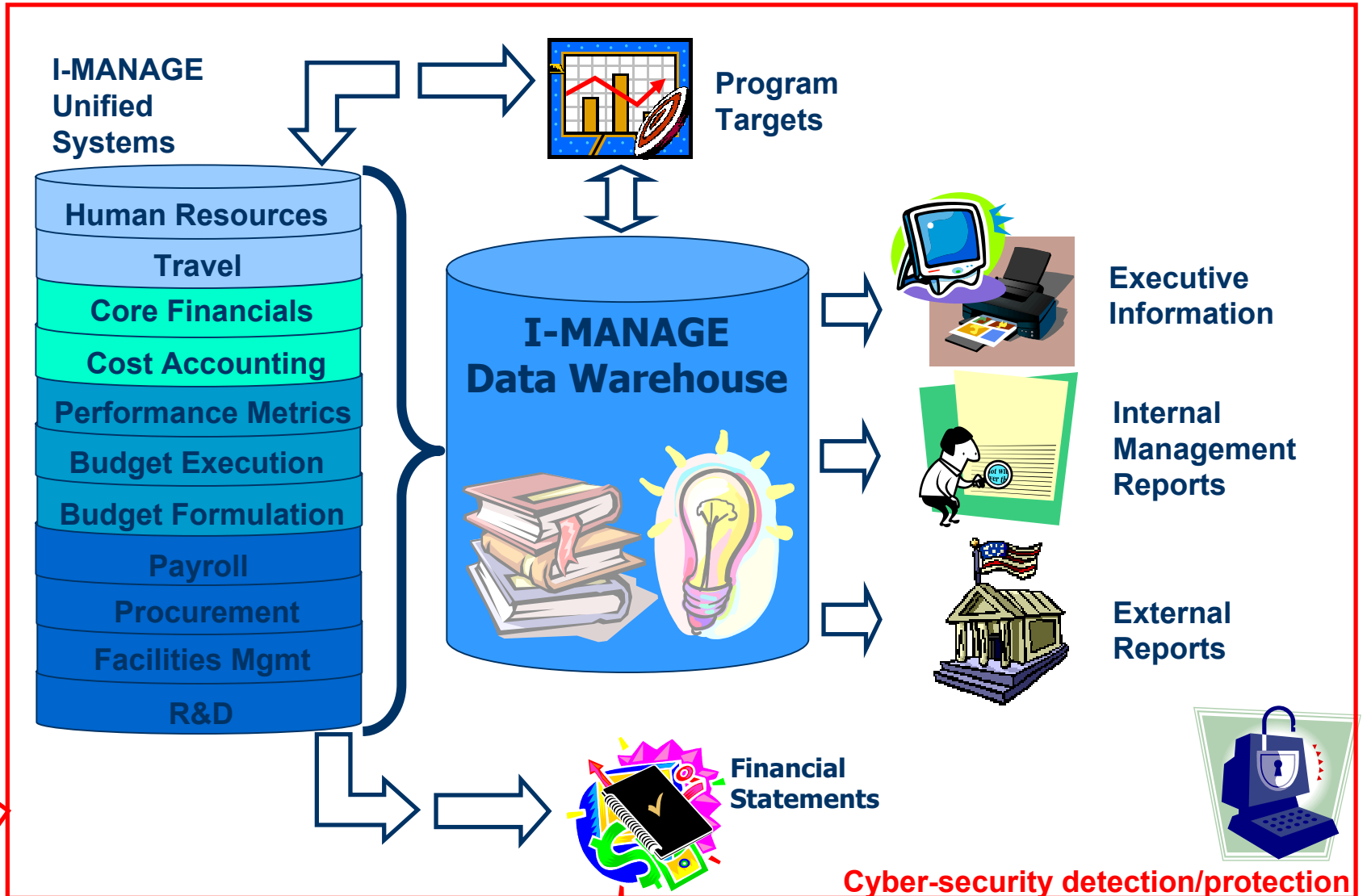
4. SGL

- Implementation Status
- Next Steps

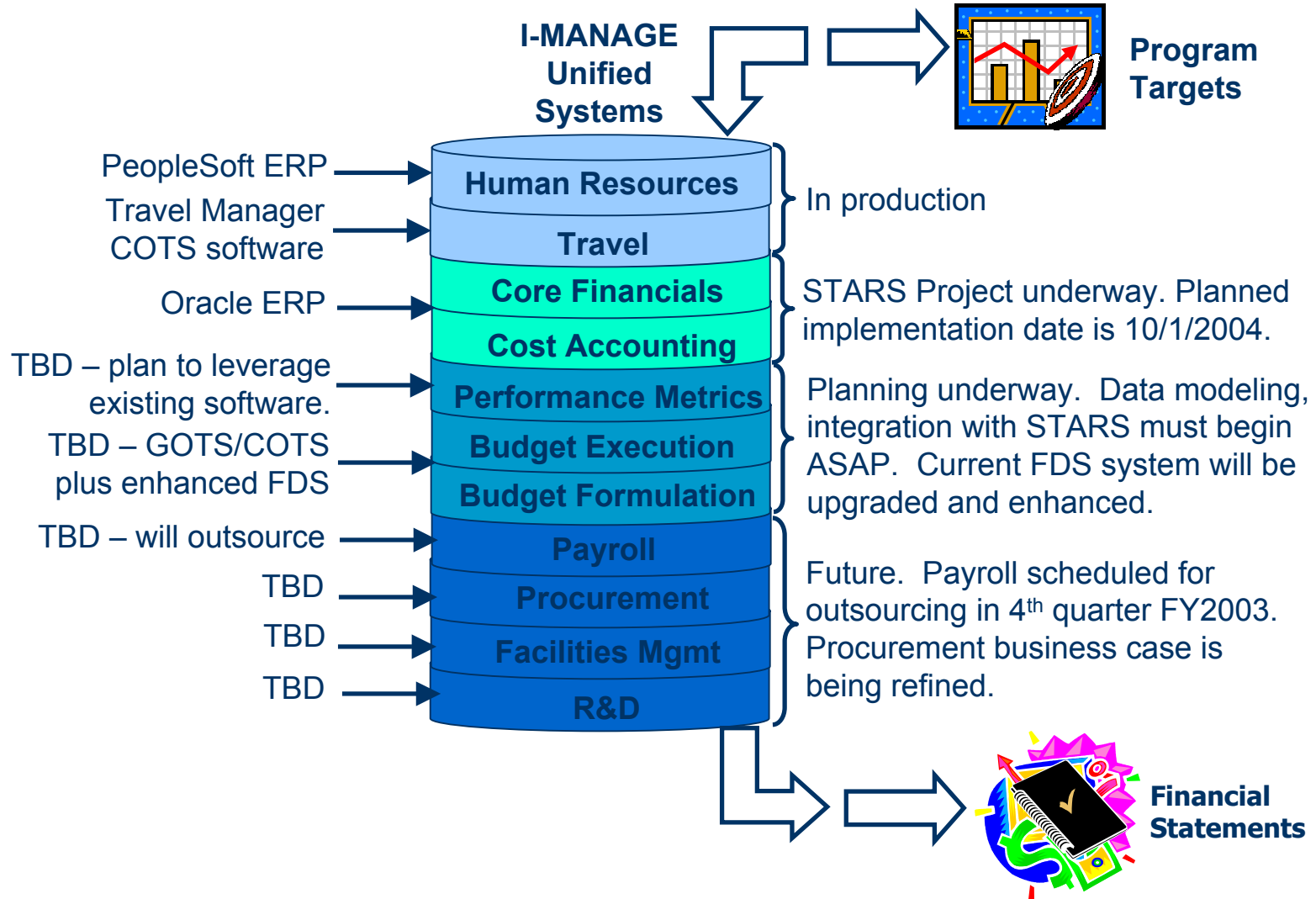
I-MANAGE Program Description

The I-MANAGE Program will consolidate and streamline Department-wide efforts to integrate financial, budgetary, procurement, personnel, program and performance information. This unified system will be supported at the core by a central data warehouse that links common data elements from each of the Department's business systems. Each manager will use the central data warehouse as a "knowledge bank" of information about portfolios, programs or projects including budget execution, accumulated costs, performance achieved, and critical milestones met. User alerts will be provided based on business rules defined specifically for each program office, and directed to the appropriate executive or manager for action.

Vision of the Future Implementing I-MANAGE

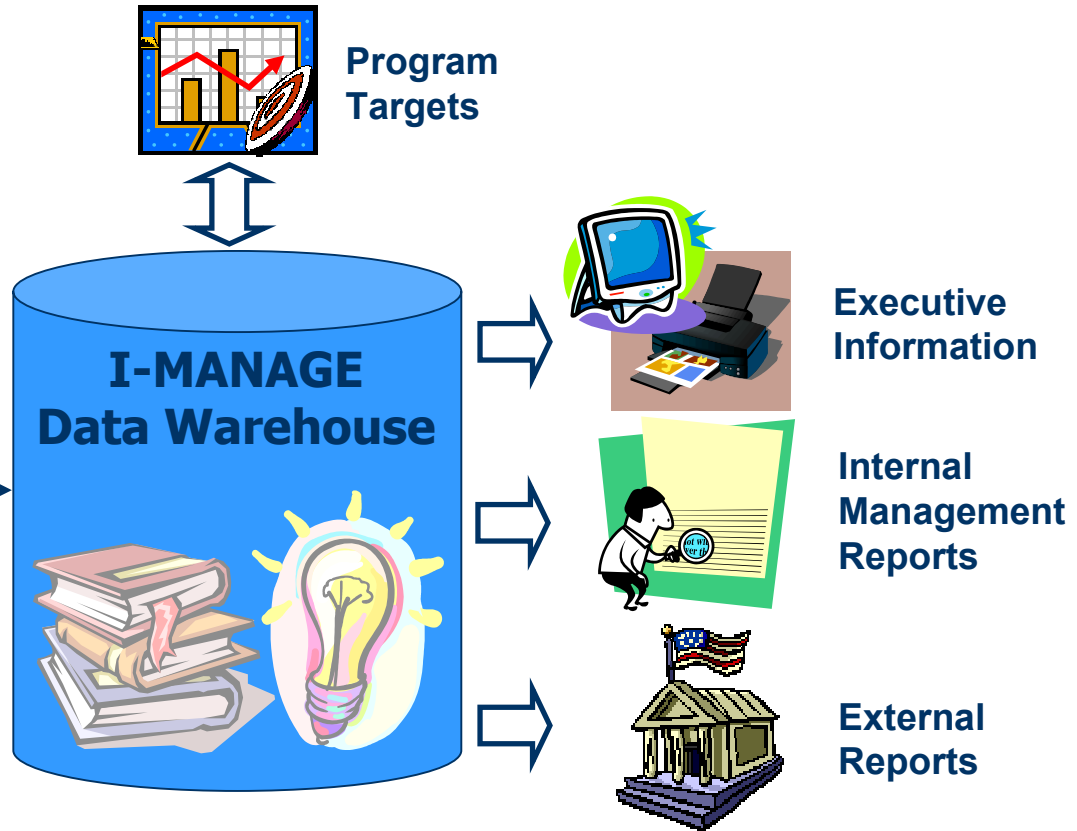


I-MANAGE Overview – Individual Systems

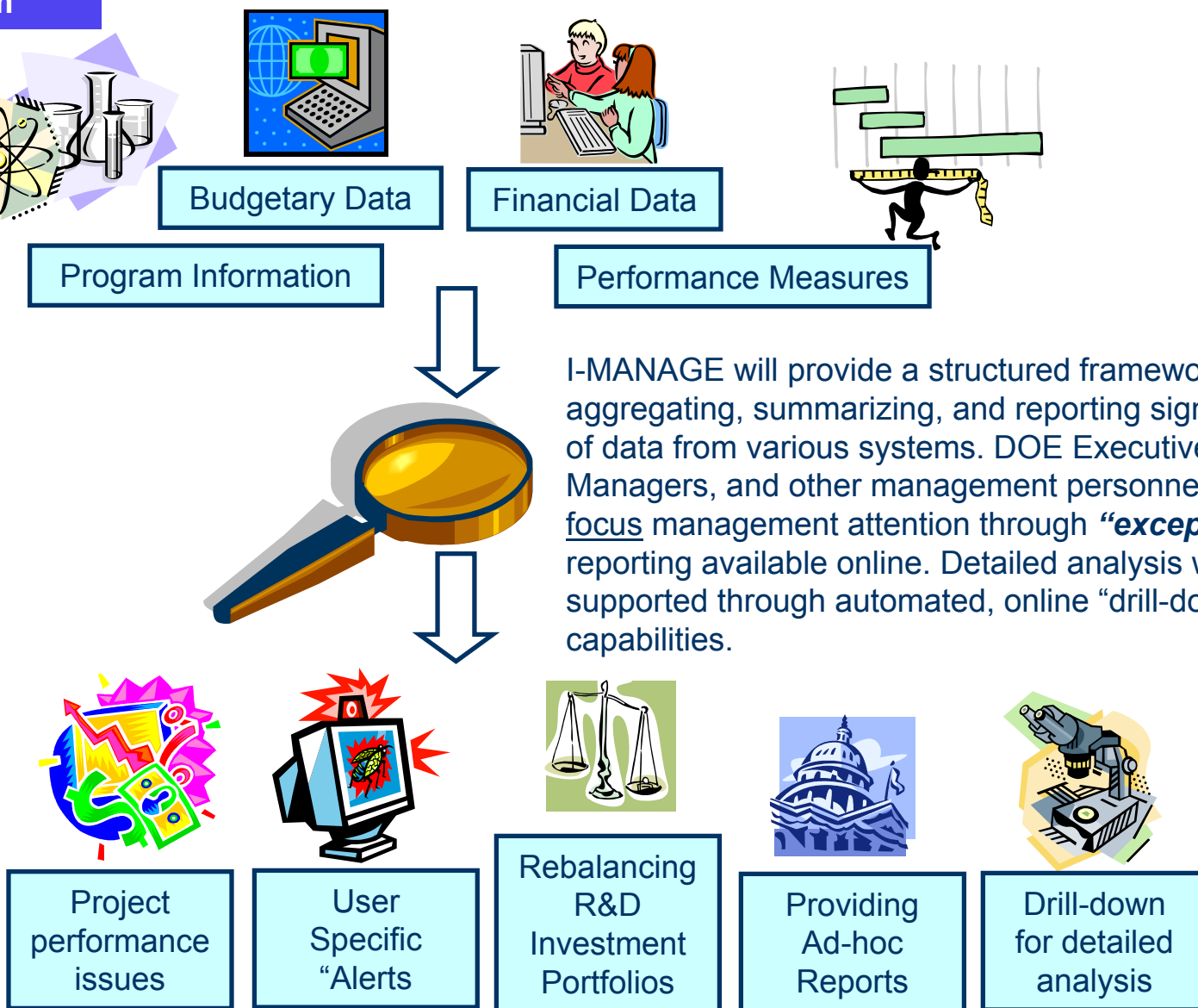


I-MANAGE Overview – The Data Warehouse

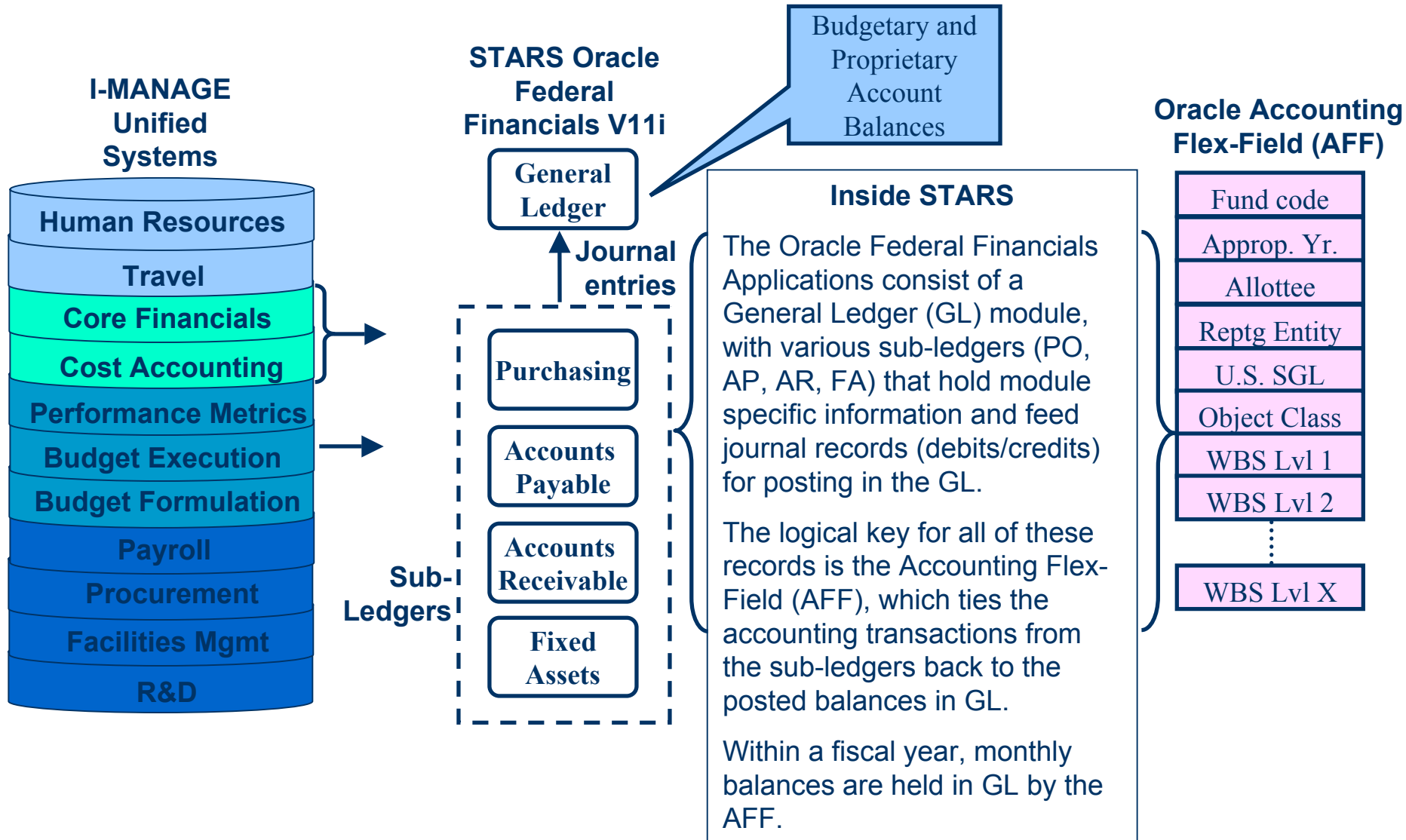
Planning underway. Data modeling, integration with STARS should begin ASAP. The I-MANAGE Data Warehouse is a critical component of the I-MANAGE Vision, key to achieving I-MANAGE strategic objectives.



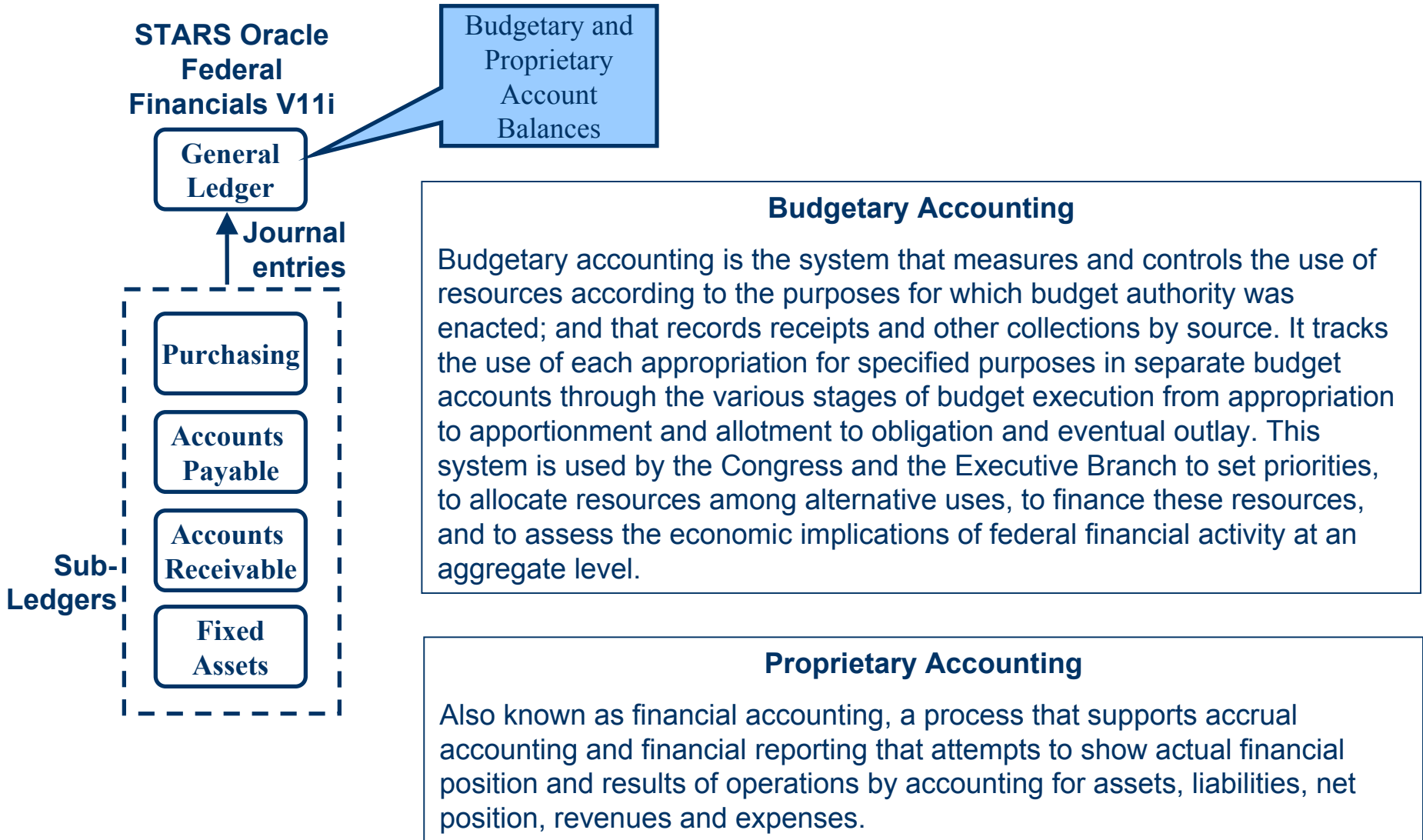
What I-MANAGE Means to End Users



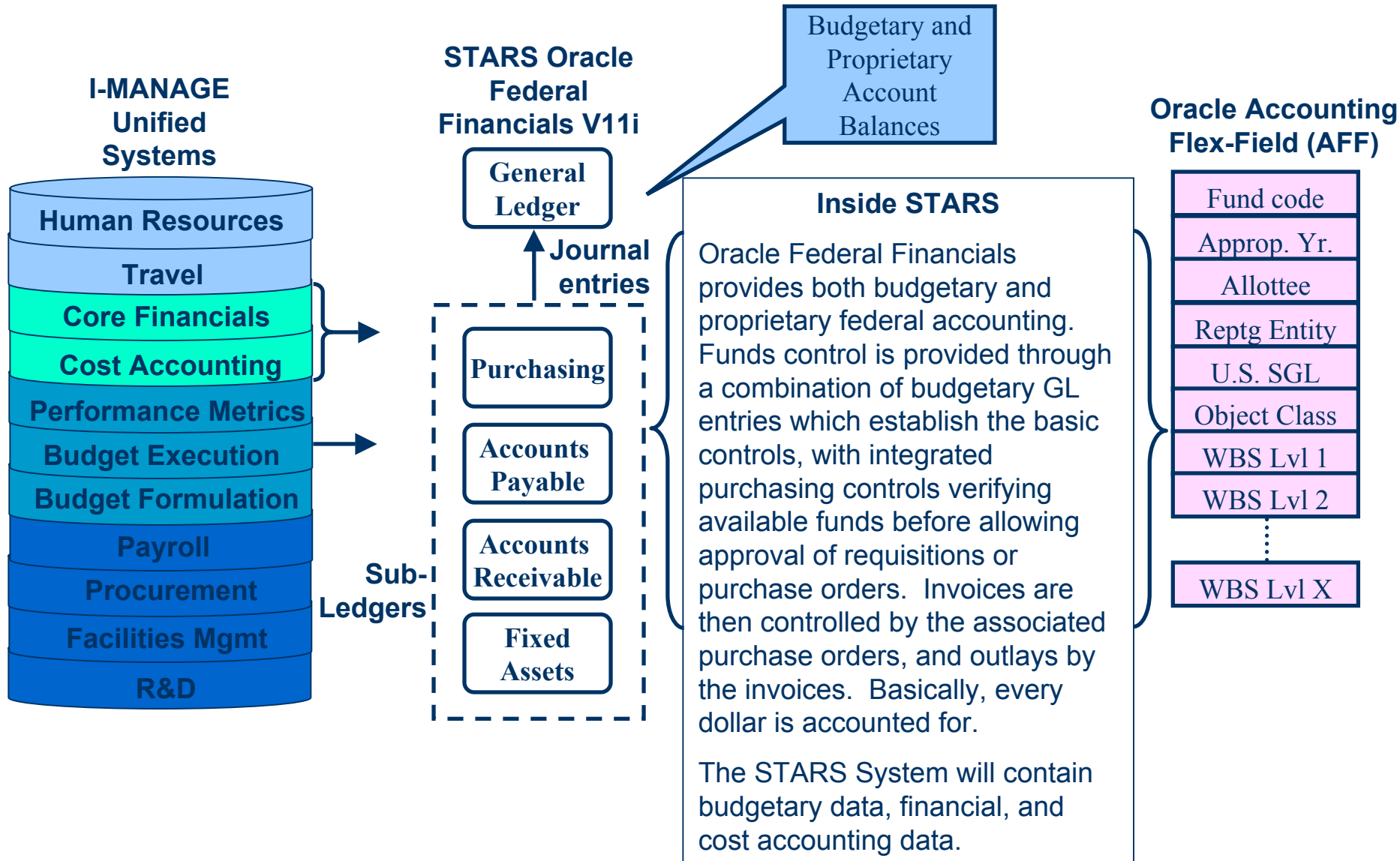
I-MANAGE In More Detail – The AFF



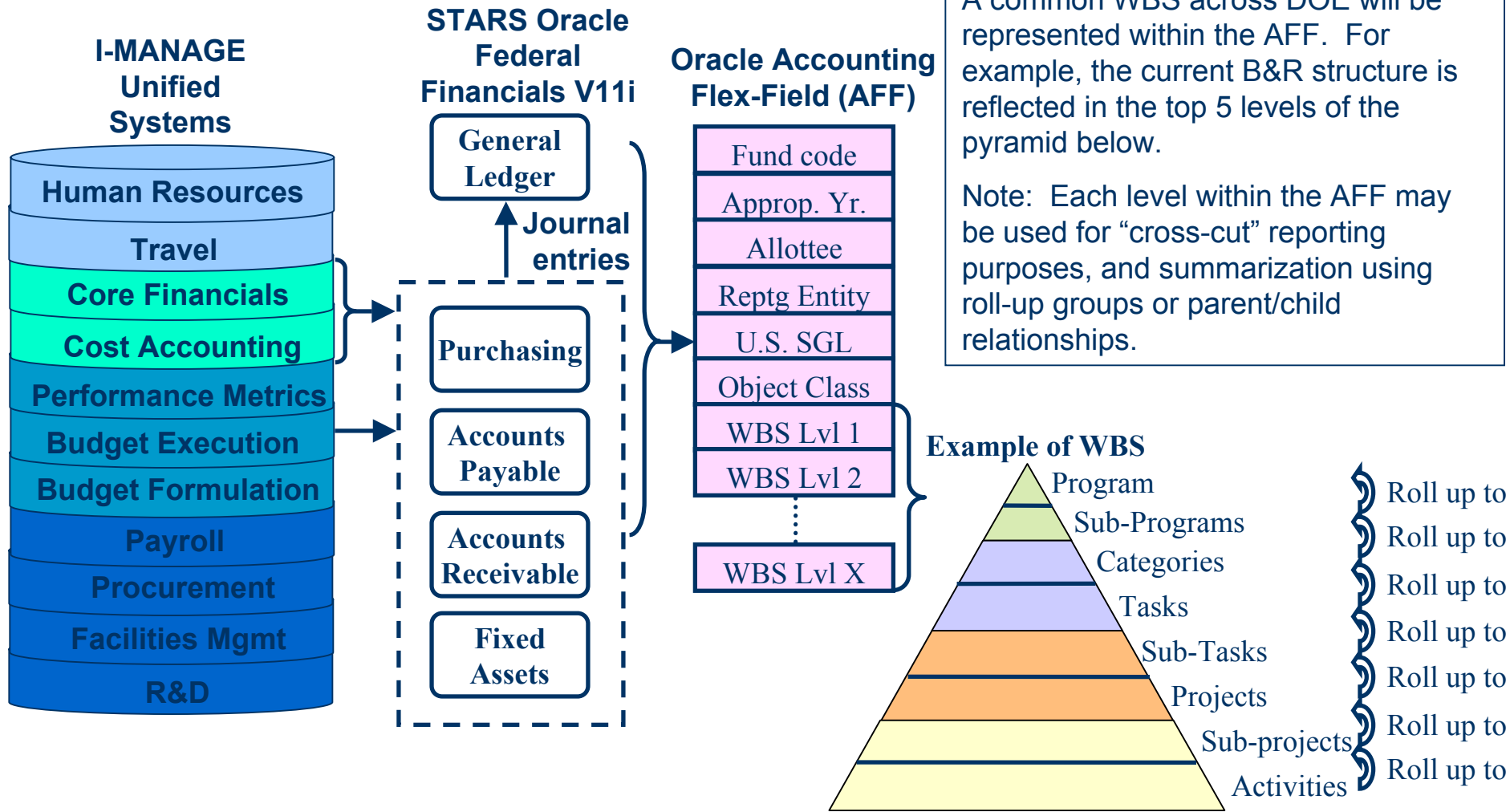
I-MANAGE In More Detail – Federal Accounting



I-MANAGE In More Detail – Federal Accounting



I-MANAGE In More Detail – The WBS

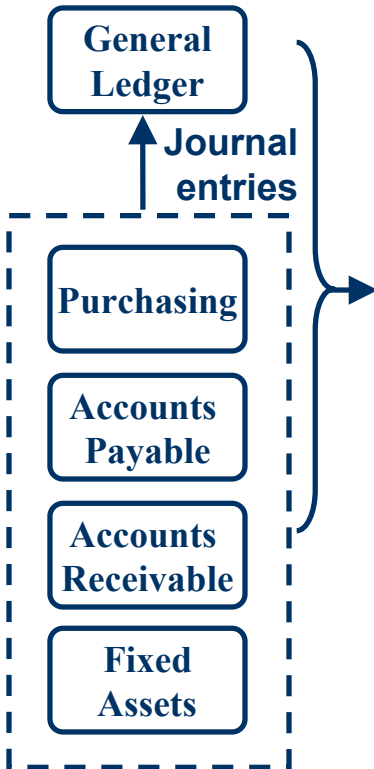


I-MANAGE – Examples of Current B&R (WBS)

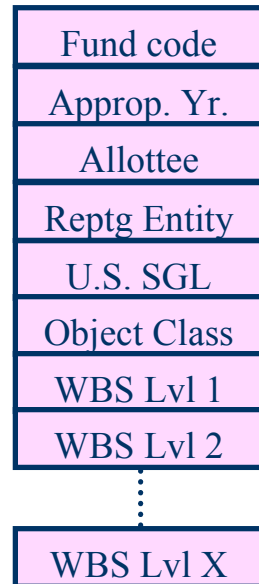
NNSA:	Program	DP-Weapons Activities (Stockpile Stewardship)
	Sub-Program	DP07-Directed Stockpile
	Category	DP0701-Stockpile Maintenance
	Task	DP070101-Life Extension Operations & Repairs
	Sub-Task	DP0701011-Repairs
SC:	Program	KA-High Energy Physics
	Sub-Program	KA11-Proton Accelerator-Based Physics
	Category	KA1102-Facilities
	Task	KA110201-Tevatron Complex Operations
	Sub-Task	KA1102011-Accelerator Operations
EM:	Program	EW-Defense Environmental Restoration & Waste Management
	Sub-Program	EW01-Post 2006 Completion-Office of River Protection
	Category	EW01J2-Office of River Protection
	Task	EW0J210-Office of River Protection – TW10 Manage Project
	Sub-Task	EW01J210A-Non-Inventory Project Costs
EE:	Program	CC-Geothermal
	Sub-Program	CC10-Geothermal Resources Development Fund
	Category	CC1020-Guarantee Reserve Fund
	Task	CC102011-Guarantee Losses-Interest & Principal Assistance
	Sub-Task	CC1020111-Advances

I-MANAGE In More Detail – STARS Data

STARS Oracle Federal Financials V11i



Oracle Accounting Flex-Field (AFF)



The STARS System is the central source of:

- Budgetary information from the appropriation to the field-site budgetary control levels;
- Commitments, obligations, costs, and outlays based on funds availability as established by the budgetary controls;
- Detail financial / cost accounting transactions within the sub-ledgers, through interfaces or direct data entry;
- General ledger balances based upon posted journal entries that result from the sub-ledger activity.

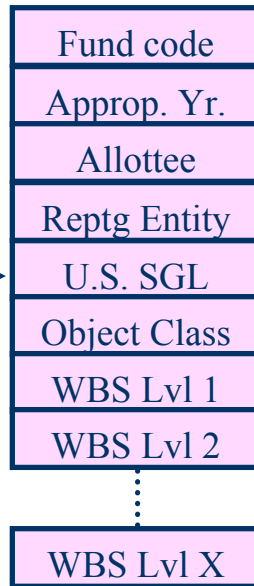
The data is logically referenced through the AFF. To link budgetary data, financial data (commitments through outlays), and performance measures will require linking data within a performance hierarchy to a specific level (called segment) within the AFF, most likely within one of the levels that comprise the WBS within the AFF.

Through this process, we integrate budgets, costs, and performance measures. Then, as we record the actual performance values against a given target metric, we have the ability to report budget and/or costs by unit of performance, or the total budget, available budget, and total costs against the aggregated performance to date.

I-MANAGE In More Detail – Performance Hierarchy

STARS Oracle
Federal
Financials V11i

Oracle Accounting
Flex-Field (AFF)



Example of
Performance Hierarchy



Several questions must be answered:

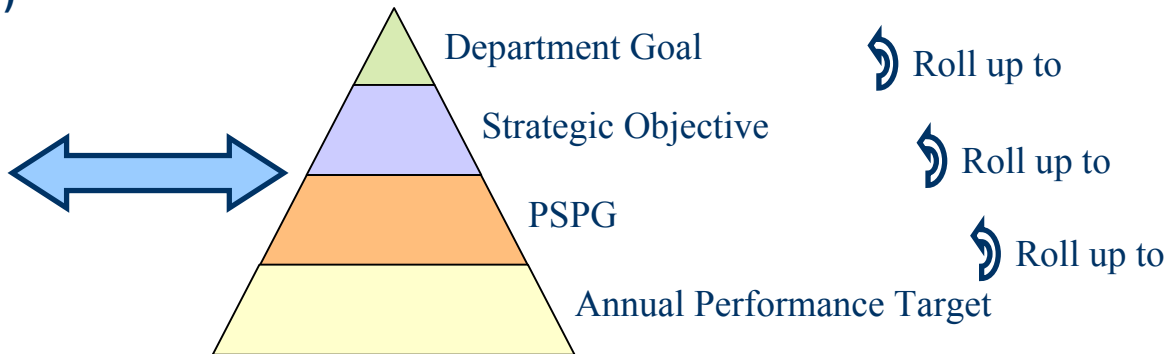
- Where will performance metrics be stored?
- How many levels are required?
- Will the system provide for multiple “sets” of performance metrics?
- What degree of flexibility will be available in designing and maintaining performance metrics?
- How will the performance hierarchy be linked to the AFF?
- What reporting will be necessary?
- How will cross-cuts be handled? Congressional earmarks?

I-MANAGE In More Detail

Oracle Accounting Flex-Field (AFF)

Fund code
Approp. Yr.
Allottee
Reptg Entity
U.S. SGL
Object Class
WBS Lvl 1
WBS Lvl 2
⋮
WBS Lvl X

Example of Performance Hierarchy



To integrate budget and performance within I-MANAGE, we must design the type of features represented below:

- Define a robust data structure (or validate Joule) that:
 - captures, tracks, and reports multiple “sets” of performance metrics across multiple years;
 - Begins the process at the start of budget planning / formulation (new I-MANAGE Standard Budget System), through budget distribution (FDS), budget execution (STARS), and into the I-MANAGE Data Warehouse.
- Provide the capability to capture “quantifiable” performance measures as well as soft (non-quantifiable) performance measures.
- Provide different grouping capabilities (e.g. parent/child, primary/secondary, etc.).
- Allow assignment of monitoring / warning thresholds.
- Facilitate what-if analysis, multi-dimensional query capability, cross-cut reporting.
- Define aggregation, summarization rules for integrating with I-MANAGE Data Warehouse.

Joint Requirements Definition Session

March 25-27, 2003

- **Purpose of JRD Session:**
 - Enable completion of the Design Baseline for the I-MANAGE STARS Oracle Federal Financial Applications
 - Identify the logical data / integration model for linking budget and performance data with financial and cost accounting data
 - Define the appropriate level of detail for capturing financial and cost accounting data within the new financial system
 - Establish an enterprise-wide solution that balances the needs of various stakeholders both within and external to the Department
- **Plans/Approach:**
 - Assemble Departmental Team to validate/discuss “draft” design that was developed with information gathered by the Budget/Performance and Cost Accounting/Financial Reporting Sub-Teams
 - Evaluate results of JRD Session and modify the design as needed
 - Prepare to brief the Executive Steering Committee with a “Draft” design on April 7 and a “Final” design on May 20, 2003

Note: FMSIC had membership on both sub-teams and will be represented at the JRD session in March

Will I-MANAGE replace financial systems used by our contractor operated labs and facilities?

To the point:



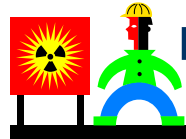
DOE uses approximately 30 “integrated” contractors to operate its largest facilities. Currently, they transmit monthly and year-end accounting data feeds in accordance with DOE and Federal laws, regulations, and requirements. Internally, they operate their own systems. In many cases, these are very large, complex ERP systems, with integrated accounting, human resources, project costing, materials, purchasing, maintenance, and manufacturing modules.

Having DOE contractors use a single system would be a profound change in the way we do business:

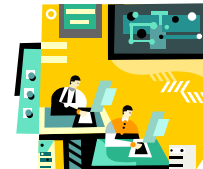
- Each of the integrated contractors would have to standardize their chart of accounts and their methods for managerial cost accounting according to a standard yet to be developed.
- The new system would require design, development, testing, deployment, operation, and maintenance of a significant number of custom interfaces for integrating the accounting modules with other integrated modules at each of the individual sites.
- Specific contract language in each contract would have to change.
- The current hardware, bandwidth capacity may not be sufficient for the additional workload.



**Annual
Functional
Cost
Reporting**



**Monthly,
Annual Data
Feeds**



**STARS
System**

Will I-MANAGE replace financial systems used by our contractor operated labs and facilities?

Draft Recommendations: Pending Executive Steering Committee Discussion/Approval – Meetings tentatively scheduled for April 7, 2003 and May 20, 2003.

For the foreseeable future, the integrated contractors should continue to operate their own IT systems and provide the Department with a monthly and annual data feed.

•The committee recognizes that there is a need for greater detail on a more frequent basis; an informed decision will be made by the Executive Steering Committee once the I-MANAGE analysis efforts are complete (draft requirements - April 2003, final design approved by May 2003).

Benefits

- Eliminates the enormous complexity of replacing all existing financial accounting systems in use at the contractor operated sites.
- Allows the I-MANAGE Program to achieve some successes before attempting this level of change.
- Allows time to accurately estimate the cost of this ambitious endeavor.
- Eliminates the need to upgrade hardware, bandwidth.

Points to Consider



Tradeoffs

- In the long run, standardization of the chart of accounts and managerial cost accounting methods used at each of the contractor sites may make sense, but the effort to standardize these individual processes is enormous.
- There are significant costs associated with operating multiple systems at 30 plus sites which could potentially be reduced through consolidation of similar systems.
- Consolidating within I-MANAGE would require a re-compete of the current I-MANAGE contract.

SGL Implementation Status

3/19/03

- **Programming Completed on all requested changes**
- **DISCAS and MARS SGL crosswalks are in sync**
- **Final testing of crosswalk changes being conducted by the Office of Financial Control and Reporting (Loyd)**
- **STARS team will be provided SGL chart of accounts and SGL trial balance by March 31st**
- **SGL balancing edits have been developed**

Fund Type 51 Changes

- **Previous guidance requested B&R on all Fund Type 51 records**
- **Will now require Source Document Data on all fund type 51 records (e.g. NETYA)**
- **First three positions will be NET followed by the appropriated fund type the Fund Type 51 Data was purchased from**
- **New guidance will be issued to effect this change**
- **B&R data will become optional once this new requirement is implemented**

SGL Implementation Status Next Steps

- **Revise Fund Type 51 data conversion**
- **Continue to work with STARS team on cross walking and loading SGL data**
- **Continue development of specific SGL scenarios and maintain updated crosswalk**
- **Issue memorandum requiring all contractor submissions to be in SGL format beginning with the STARS deployment on October 1, 2004**

Questions

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